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BY FEDERAL EXPRESS

June 3, 2014

Ms. Lydia Chang, Branch Chief
Special Projects Branch
Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
U.S. Nuclear Regulatory Commission
11545 Rockville Pike
2 White Flint, Mail Stop 8 F5
Rockville, MD 20852-2738

Re: Groundwater Flow Model of the Church Rock Site and Local Area - Revised
Materials License No. SUA-1475
United Nuclear Corporation's Church Rock Tailings Site, Gallup, New Mexico

Dear Ms. Chang:

On behalf of United Nuclear Corporation (UNC), Chester Engineers is submitting a revised report on the development of a three-dimensional, numerical groundwater flow model (Flow Model) of UNC's Church Rock Mill and Tailings Site and the adjacent down-gradient region northeast of Gallup, New Mexico.

The original Flow Model report was submitted to the United States Nuclear Regulatory Commission (NRC) in October 2012 and was subsequently recommended as a potential supplement to UNC's April 2012 license amendment request to revise groundwater standards for the Church Rock Mill site. The Flow Model report has been updated as you requested in your April 23, 2014, letter. The revisions include the detailed information contained in our January 10, 2014, response to NRC's June 4, 2013, request for additional information (RAI) related to UNC's license amendment request.

The Flow Model report is transmitted on Optical Storage Media (OSM). The enclosure to this letter is one Compact Disc (CD) containing the document components identified below. Please note that additional copies of the CD and a printed copy of the report have been issued to Ms. Yolande Norman of NRC.

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9417126

Sincerely,



Robert B. Warren, Jr.
Project Manager
(814) 231-2170 x 15
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14-6209-SC-142

Enclosure (1 CD)

cc:

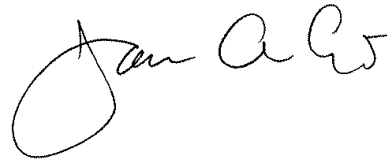
Yolande Norman, U.S. Nuclear Regulatory Commission (3 CDs, 1 printed copy of full report)
Janet Brooks, U.S. EPA Region 6 (1 CD, printed copy of tables and figures only)
Earle Dixon, New Mexico Environment Department (1 CD)
Freida White, Navajo Nation Environmental Protection Agency (1 CD)
Deborah Steckley, U.S. Department of Energy (1 CD)
Sarah Jacobs, U.S. EPA Region 9 (1 CD)
Larry Bush, United Nuclear Corporation (1 CD)
Roy Blickwedel, General Electric Corporation (2 CDs)

Questions concerning this submittal may be directed to:

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Document components contained on OSM#1

001 Chester Transmittal Letter 6-3-14.pdf, 135 KB
002 GW Flow Model Rpt Text-Tables-Figures.pdf, 44,919 KB
003 GW Flow Model Rpt Appendices.pdf, 48,923 KB



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